

Upper Salinas Water Quality Assessment

July 8, 2008

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Storm Water Program

Central Coast Regional Water Quality Control Board

Upper Salinas Communities:

Atascadero

Templeton CSD

King City

Enrollment Schedule for Upper Salinas

Tasks	Length of Process	Begin	End
Phase I: Water Board Staff Assessment of Water Quality Challenges	5 weeks	Now	July 16 2008
Phase II: MS4 Finalization of Draft SWMP and Water Board Staff and Public SWMP Review	9 weeks	Jul 16	Sep 17
Phase III: MS4 SWMP Redraft	6 weeks	Sep 17	Oct 29
Phase IV: Water Board Staff Final Review and Posting of SWMP	12 weeks	Oct 29 2008	Jan 21 2009
Phase V: Water Board Action	8+ weeks	Jan 21	~ Mar 20

Pollutants of Concern (POCs)

“POCs consist of any pollutants that exhibit one or more of the following characteristics (Municipal Phase II General Permit):

- Current loadings or historic deposits of the pollutant are impacting the beneficial uses of a receiving water
- Elevated levels of the pollutant are found in sediments of a receiving water and/or have the potential to bioaccumulate in organisms therein
- The detectable inputs of the pollutant are at concentrations or loads considered potentially toxic to humans and/or flora and fauna.”

Pollutants of Concern (POCs)

Pollutants of concern found in urban runoff include
(Municipal Phase II General Stormwater Permit):

- Sediments
- Non-sediment solids
- Nutrients
- Pathogens
- Oxygen-demanding substances
- Petroleum hydrocarbons
- Heavy metals
- Floatables
- Polycyclic aromatic hydrocarbons (PAHs)
- Trash
- Pesticides and herbicides

POCs – Atascadero

Addressed in December 2004 Draft
Management Plan

- Nutrients
- Pesticides
- Sediment or siltation
- Salinity/total dissolved solids/chlorides
- City's municipal codes address potential SW pollutants, such as hazardous waste, animal waste, garbage, littering, and development and demolition activities

POCs – Atascadero

303(d) Listed Impaired Waterbodies

Waterbody	Pollutant	Potential Sources	EPA Approved TMDL
Salinas River	Chloride	Urban Runoff/ Storm Sewers	No – Address in SWMP
	Sodium	Urban Runoff/ Storm Sewers	No – Address in SWMP
Atascadero Creek	Indicator Bacteria	Unknown	No – Address in SWMP
	Low Dissolved Oxygen	Unknown	No – Address in SWMP

POCs – Atascadero

Potential Additional Concerns

Salinas River

- Total Dissolved Solids
- Chlorophyll a
- pH
- Sedimentation

Atascadero Lake

- Low DO
- Nutrients?

Atascadero Creek

- Indicator bacteria
- Sedimentation
- Liquid wastes mentioned in SWMP

Graves Creek

- Dissolved Oxygen
(SnapShot Day 5-5-07; Atasc-41)
- ?

Possible Pollutant Sources – Atascadero

- Agriculture
- Pasture Grazing-Riparian and/or Upland
- Septic Systems near MS4 Storm drains
- Water Treatment Facility
- Pet Waste
- Decaying algae
- Salts (MgCl) used for dust control by industry

Future Projects – Atascadero

- Downtown Mixed-Use Projects
- Wal Mart?
- Villa Colonia Planned Development
- Water Treatment Expansion

Discussion

- What other water quality concerns can you identify that should be addressed in Atascadero's SWMP?
- Identify POCs & Sources

POCs – Templeton

303(d) Listed Impaired Waterbodies

Waterbody	Pollutant	Potential Sources	Approved TMDL
Salinas River	Chloride	Urban Runoff/Storm Sewers	No, Address in SWMP
Salinas River	Sodium	Urban Runoff/Storm Sewers	No, Address in SWMP

POCs – Templeton

Potential Additional Concerns

Santa Rita Creek

- ?
- ?

Paso Robles Creek

- ?

Toad Creek (flows through town)?

- ?

POCs – Templeton

Additional Concerns

- **Trash**
- **Pet waste**
- **Irrigation runoff**
- **Pesticides**
- **Household cleaners**

Possible Pollutant Sources – Templeton

- Agriculture
- Pasture Grazing-Riparian and/or Upland
- Salts from natural ground water sources

Future Projects – Templeton

- Meadowbrook WWTP Expansion
- Others through SLO County

Discussion

- What other water quality concerns can you identify that should be addressed in the Templeton CSD SWMP?
- Identify POCs & Sources

POCs – King City

Addressed in November 2005 Draft Management Plan

- Nutrients
- Pesticides
- Salinity/ Total Dissolved Solids (TDS)/ chlorides
- Sedimentation/ siltation

POCs – King City

Impaired Waterbodies

Waterbody	Pollutant	Potential Sources	Approved TMDL
San Lorenzo Creek	Indicator Bacteria	<ul style="list-style-type: none">• Urban Runoff/Storm Sewers	No
	Boron	<ul style="list-style-type: none">• Unknown	No

POCs – King City

Impaired Waterbodies

Waterbody	Pollutant	Potential Sources	Approved TMDL
Middle Salinas River (lower 20 mi) Gonzales Rd. to confluence w/ Nacimiento R.	Pesticides	<ul style="list-style-type: none"> • Nonpoint Source 	No
	Salinity	<ul style="list-style-type: none"> • Agriculture, • Natural Sources • Nonpoint Source 	No

POCs – King City

Potential Additional Concerns

San Lorenzo Creek

- Chloride (06-07)
- Chlorophyll a (99-00)
- Conductivity (99-00 & 06-07)
- TDS (99-00 & 06-07),
- pH (99-00 & 06-07),
- Nitrate Nitrogen (06-07),
- Nickel in Sediment ('99-00)

Middle Salinas R.

- TDS (99-00 & 06-07)
- Chlorophyll a (1999-2000)
- pH (1999-2000)
- Nickel in Sediment ('99-00)

Non specific

- Naturally occurring Asbestos (NOA)

Possible Pollutant Sources – King City

Salinas River

- Pesticides/ Salinity/ TDS/ Chlorides:
 - Ag Return Flows
 - Irrigation Tail-Water
 - Ag-storm runoff and
 - Irrigated Crop Production

San Lorenzo Creek

- Indicator bacteria
 - Agricultural and grazing activities
- Sedimentation/ siltation
 - Construction and development

Future Projects – King City

- ?
- Mixed-use Developments:
- Mills Ranch

Discussion

- What other water quality concerns can you identify that should be addressed in King City's SWMP?
- Identify POCs & Sources

References

- CCAMP (<http://www.ccamp.org/>)
- 2006 303(d) Listings
(http://www.waterboards.ca.gov/water_issues/programs/tmdl/docs/303dlists2006/epa/state_usepa_combined.pdf)

Questions?

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MS4 Enrollment Strategy Website:

[http://www.waterboards.ca.gov/centralcoast/
stormwater/municipal/phase_2/ms4enrollme
nt/enrollment_strategy_index.htm](http://www.waterboards.ca.gov/centralcoast/s
tormwater/municipal/phase_2/ms4enrollme
nt/enrollment_strategy_index.htm)